



UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: COLLINS et al.
Serial No: 09/328,726
Filing Date: October 26, 1998

Atty Docket No: 20206-25 (PT-TA 410 (Cont 1))
Group Art Unit: 2766
Examiner: Leaning, J.

RECEIVED

JAN 32 2001

TC 2100 MAILROOM

For: "PUBLIC KEY CRYPTOGRAPHIC APPARATUS AND METHOD"

Box RCE
Assistant Commissioner for Patents
Washington, D.C. 20231

REQUEST FOR CONTINUED EXAMINATION (RCE)
UNDER 37 CFR 1.114 AND AMENDMENT

Examiner:

Applicants are submitting this amendment along with a Request for Continued Examination (RCE) under 37 CFR 1.114. Please amend the above identified application as follows and consider the following remarks in response to the Final Office Action mailed on December 26, 2000 for the above identified prior application.

In The Claims:

1 14. (Twice Amended) A method for establishing cryptographic communications that are
2 backwards compatible with preexisting public key infrastructures, comprising the step of:
3 encoding a plaintext message word M to a ciphertext word C, where M corresponds to a
4 number representative of a message and
5 $0 \leq M \leq n-1$
6 n being a composite number formed from the product of $p_1 \cdot p_2 \cdot \dots \cdot p_k$ where k is an integer greater
7 than 2[,] and p_1, p_2, \dots, p_k are distinct random prime numbers, and where the ciphertext word C
8 is a number representative of an encoded form of message word M, said encoding step including
9 the steps of,

10 defining a plurality of k sub-tasks in accordance with,

11
$$C_1 \equiv M_1^{e_1} \pmod{p_1},$$

12
$$C_2 \equiv M_2^{e_2} \pmod{p_2},$$

13
$$\vdots$$